ASSIGNMENT - 4

Note:

● For every lab assignment report should be submitted via moodle.

● Format of the report: SQL Queries and screenshot of all the tables and Output.

1. Create a db of Lecturers with 10 tuples which consist of First name, last name, age, city, state, pin code, subject, salary and years of experience.
    - Write a query to find the salary where age <=25 and salary >=20000
    - Write a query to print the lecturers between the ages of 25-35.
    - Check the experience of a lecturer, if their experience is greater than 2 years increment their salary by 20%.
    - List the names of the lecturers who are not from Karnataka.
    - Create one more column address and print the address combining city, state and pin code.
    - Find the sum of salaries of all the lecturers in the table and also find out minimum, maximum and average salary.
    - Find out the youngest and oldest lecturer in your table.
    - One of the subject “C” was replaced with “python”, write a query to do the same in the table and also print the names of lecturers and their subject after replacement.
    - Write a query to retrieve the lecturers whose salary is greater than 20000 and name starts with ‘a’.
    - Write a query to retrieve the lecturers whose experience is above 2 years and first name has ‘s’.

2. Create a database of movies consisting of Movie id, Movie title, Actor, actress, year, Rating (out of 5), budget, location and Director.
    - Write a query to print the movies which have the same actress.
    - Write a query to print the movies with a budget greater than 1,00,000 and has an actors name starting with A.
    - Write a query to filter the movies which were shot in location London and have rating above 4.
    - Print the average rating of the movies released after 1990 and find the most and least rated movie.
    - Update the rating of the movie directed by a particular director with 5 ratings.

3. Create a student grading database system consisting of:

    STUDENT(USN, SName, Address, Phone, Gender)

    IAMARKS(USN, Subcode, Subject name, Test1, Test2, Test3, FinalIA)

    (Each test is of 10, hence Final IA is of 30)
    - Categorize students based on the following criterion and print the table by adding a category column in the student table.

      If FinalIA = 30 to 20 then CAT = ‘Outstanding’

      If FinalIA = 20 to 10 then CAT = ‘Average’

      If FinalIA< 10 then CAT = ‘Weak’